

3-5 Solving Two-Step Equations 11/13/12

Objective SWBAT - solve two step equation

Ex. 1

$$2x + 3 = 9$$

$$\boxed{2x + 3 = 9}$$
$$\begin{array}{r} -3 \quad -3 \\ \hline \end{array}$$

$$\begin{array}{r} 2x = 6 \\ \hline 2 \quad 2 \end{array}$$

$$x = \underline{3}$$

$$\leftarrow 2x + 3 = 9$$

$$2 \cdot 3 + 3 = 9$$

$$2(3) + 3 = 9$$

$$6 + 3 = 9$$

$$9 = 9 \checkmark$$

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EX. 2

$$2x + 4 = 10$$

$$\begin{array}{r|l} 2x + 4 & = 10 \\ -4 & -4 \end{array}$$

$$\begin{array}{r|l} 2x & = 6 \\ \hline 2 & 2 \\ \hline x & = 3 \end{array}$$



$$\begin{array}{l} 2x + 4 = 10 \\ 2(3) + 4 = 10 \\ 6 + 4 = 10 \end{array}$$

$$10 = 10 \checkmark$$

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Ex. 3

a) $-2y - 7 = 3$

b) $4 + 5r = -11$

$$\begin{array}{rcl} -2y - 7 & = & 3 \\ +7 & & +7 \\ \hline -2y & = & 10 \\ \hline -2 & & -2 \\ \hline y & = & -5 \end{array}$$

$-2(-5) - 7 = 3$
 $10 - 7 = 3$
 $3 = 3 \checkmark$

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$$\begin{array}{r} b) \quad 4 + 5r = -11 \\ -4 \quad -4 \\ \hline 5r = -15 \\ 5 \quad 5 \\ \hline \boxed{r = -3} \end{array}$$

$$\begin{array}{l} 4 + 5(-3) \stackrel{?}{=} -11 \\ 4 + -15 \stackrel{?}{=} -11 \\ 4 - 15 \stackrel{?}{=} -11 \\ -11 = -11 \checkmark \end{array}$$

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